PATENT COOPERATION TREATY



From the INTERNATIONAL SEARCHING AUTHORITY

To: TODD MATTINGLY	PCT		
HAYNES AND BONNE, LLP	NOTIFICATION OF TRANSMITTAL OF		
901 MAIN STREET, SUITE 3100 DALLAS, TX 75202	THE INTERNATIONAL SEARCH REPORT AND		
	THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION		
	(PCT Rule 44.1)		
	Date of mailing (day/month/year) 27 SEP 2005		
Applicant's or agent's file reference 25791.277.02	FOR FURTHER ACTION See paragraphs 1 and 4 below		
International application No. PCT/US04/11973	International filing date (day/month/year) 15 April 2004 (15.04.2004)		
Applicant EVENTURE GLOBAL TECHNOLOGY			
	rch report and the written opinion of the International Searching Authority		
have been established and are transmitted herewith.			
Filing of amendments and statement under Article 19 The applicant is entitled, if he so wishes, to amend the cl			
When? The time limit for filling such amendments i search report.	s normally two months from the date of transmittal of the international		
Where? Directly to the International Bureau of WIP 1211 Geneva 20, Switzerland, Facsimile No.)		
For more detailed instructions, see the notes on the	accompanying sheet.		
	2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.		
With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:			
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.			
	oplicant will be notified as soon as a decision is made.		
4. Reminders			
Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.			
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.			
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.			
In respect of other designated Offices, the time limit of 30 mont	hs (or later) will apply even if no demand is filed within 19 months.		
See the Annex to Form PCT/IB/301 and, for details about the a Volume II, National Chapters and the WIPO Internet site.	pplicable time limits, Office by Office, see the PCT Applicant's Guide,		
Name and mailing address of the ISA/ US	Abthorized officer AA		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	David J Bagnell		
P.O. Box 1450 Alexandria, Virginia 22313-1450			
Facsimile No. (703) 305-3230	Telephone No. 571-272-3600		

Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 25791.277.02	FOR FURTHER ACTION		Form PCT/ISA/220 re applicable, item 5 below	
International application No. PCT/US04/11973	International filing date (day/n 15 April 2004 (15.04.2004)	nonth/year)	(Earliest) Priority Date (day/month/year) 17 April 2003 (17.04.2003)	
Applicant EVENTURE GLOBAL TECHNOLOGY				
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of				
			s of the international application in the	
language in which it was filed, un The international to this Authority (search was carried out on the ba		tion of the international application furnished	
b. With regard to any nucleotic	le and/or amino acid sequence	disclosed in the	e international application, see Box No. 1.	
2. Certain claims were found	unsearchable (See Box No. 11)			
3. Unity of invention is lacking (See Box No. III) 4. With regard to the title,				
the text is approved as submitted by the applicant.				
the text has been established	by this Authority to read as follows:	ows:		
5. With regard to the abstract, the text is approved as submi	tted by the applicant.			
the text has been established,	according to Rule 38.2(b), by the		s it appears in Box No. IV. The applicant report, submit comments to this Authority.	
6. With regard to the drawings, a. the figure of the drawings to be p		gure No. <u>1</u>		
as suggested by the a	• •	c : .		
	uthority, because the applicant f uthority, because this figure bett		· ·	
b. none of the figures is to be pu	•	er characterize	S the mythuon.	

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/11973

Box IV TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)	
An apparatus for radially expanding and plastically deforming a tubular (100).	·
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-	

Form PCT/ISA/210 (continuation of first sheet(3)) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/11973

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : E21B 23/01 US CL : 166/298, 55.7				
According to	According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELD	OS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 166/298, 55.755, 55.6, 297; 405/184.3				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST				
C. DOCI	UMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.	
X	US 5,306,101 A (Rockower et al.) 26 April 1994 (26		1, 13, 26 and 41	
Х	US 6,325,148 B1 (Trahan et al.) 4 December 2001 (0	04.12.2001), see entire document.	50, 59-67, 70 and 72	
P,X	US 6,598,678 B1 (Simpson et al.) 29 July 2003 (29.0	07.2003), see entire document.	1-75	
Further	documents are listed in the continuation of Box-C.	See patent family annex.	•	
	pecial categories of cited documents:	"" later document published after the inter	national filing date or priority	
	defining the general state of the art which is not considered to be of relevance	date and not in conflict with the applica principle or theory underlying the inven		
"E" carlier ap	plication or patent published on or after the international filing date	"X" document of particular refevance; the c considered novel or cannot be consider when the document is taken alone		
	t which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as)	"Y" document of particular relevance; the considered to involve an inventive step with one or more other such documents	when the document is combined	
"O" document	referring to an oral disclosure, use, exhibition or other means	ohvious to a person skilled in the art		
"P" document published prior to the international filing date but fater than the "&" document member of the same patent family priority date claimed				
Date of the ac	Date of the actual completion of the international search Date of mailing of the international search report			
	005 (18.08.2005)	27 SEP 7111		
Mai	ailing address of the ISA/US il Stop PCT, Attn: ISA/US	David I Bagnell Wmuth		
Commissioner for Faterits P O Box 1450				
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230 Telephone No. 571-272-3600				

Form PCT/ISA/210 (second sheet) (January 2004)

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHO	ORITY		
To: TODD MATTINGLY HAYNES AND BONNE, LLP 901 MAIN STREET, SUITE 3100 DALLAS, TX 75202		PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY	
			(PCT Rule 43his.1)
		Date of mailing (day/month/year)	27 Sec 440
Applicant's or agent's file reference		FOR FURTHER	ACTION See paragraph 2 below
25791.277.02 International application No.	International filing date ((day/month/year)	Priority date (day/month/year)
PCT/US04/11973	15 April 2004 (15.04.200		17 April 2003 (17.04.2003)
International Patent Classification (IPC) of			
IPC(7): E21B 23/01 and US Cl.: 166/298	, 55.7		
Applicant			-
EVENTURE GLOBAL TECHNOLOGY	<u> </u>	 	
1. This opinion contains indications rela	iting to the following item:	S:	
	Box No. 1 Basis of the opinion		
Box No. II Priority			
Box No. III Non-establi	shment of opinion with reg	gard to novelty, inver	ntive step and industrial applicability
Box No. IV Lack of unit	ty of invention		
1 4-3	atement under Rule 43bis. citations and explanation		novelty, inventive step or industrial atement
Box No. VI Certain doc	uments cited		
Box No. VII Ccrtain defe	ects in the international app	olication	
Box No. VIII Certain obse	ervations on the internation	nal application	
2. FURTHER ACTION		•	
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.			
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.			
3. For further details, see notes to Form	PCT/ISA/220.		
Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230 Cuthorized officer David J Bagnell Telephone No. 571-272-3600			ermuto for

Form PCT/ISA/237 (cover sheet) (January 2004)

DATE: 10.5.05

BY: Cof

International application No.	

PCT/US04/11973

Box No. 1 Basis of this opinion
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
a. type of material
a sequence listing
table(s) related to the sequence listing
b. format of material
in written format
in computer readable form
c. time of filing/furnishing
contained in international application as filed.
filed together with the international application in computer readable form.
furnished subsequently to this Authority for the purposes of search.
3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:
05770, 0270

International application No. PCT/US04/11973

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1. Statement			
Novelty (N)	Claims	Please See Continuation Sheet	YES
• • •		Please See Continuation Sheet	
Inventive step (IS)	Claims	Please See Continuation Sheet	YES
·		Please See Continuation Sheet	NO
Industrial applicability (IA)	Claims	Please See Continuation Sheet	YES
medicinal approaching (my		Please See Continuation Sheet	NO
2. Citations and explanations:			
Please See Continuation Sheet			
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		·	
	,	• .	
orm PCT/ISA/237 (Box No. V) (January 2004)			

International application No. PCT/US04/11973

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

V. L. Reasoned Statements:

The opinion as to Novelty was positive (Yes) with respect to claims 2-12, 14-25, 27-40, 42-49, 51-58, 68, 71 and 73-75

The opinion as to Novelty was negative (No) with respect to claims 1, 13, 26, 41, 50, 59-67, 69, 70 and 72

The opinion as to Inventive Step was positive (Yes) with respect to claims 2-12, 14-25, 27-40, 42-49, 51-58, 68, 71 and 73-75

The opinion as to Inventive Step was negative(NO) with respect to claims 1, 13, 26, 41, 50, 59-67, 69, 70 and 72

The opinion as to Industrial Applicability was positive (YES) with respect to claims 1-75

The opinion as to Industrial Applicability was negative(NO) with respect to claims NONE

V. 2. Citations and Explanations:

Claims 1, 13, 26 and 41 lack novelty under PCT Article 33(2) as being anticipated by Rockower et al., U.S. 5,306,101

Regarding claim 1, Rockower et al. discloses a support member (11), a cutting device (25,29,32) and an expandable device (15) radially expanding and plastically deforming the tubular (figs 6-12).

As to claim 13, Rockower et al. discloses a sealing device (17).

As to claim 26, Rockower et al. discloses the plurality of moveable (rotatable) cutting elements (25,29,32) coupled to and a support member (27,30,34).

As to claims 41, Rockower et al. discloses a plurality of expansion devices (fig 27-35).

Claims 50, 59-67, 69, 70 and 72 lack novelty under PCT Article 33(2) as being anticipated by Trahan et al., U.S. 6,325,148.

Regarding claims 50 and 69, Trahan et al. discloses a support member (250) an expansion device (100) radially expanding and plastically deforming the tubular (225) and an actuator (103; col. 2, lines 20-27).

As to claims 59-67. Trahan et al. discloses a plurality of radially and axially moveable gripping members (230), moveable from a first position to a second position in radial and axial directions relative to the support member (250).

As to claim 70, Trahan et al. discloses a scaling device (seals on piston 260).

As to claim 72, Trahan et al. discloses a locking device (230).

Claims 2-12, 14-25, 27-40, 42-49, 51-58, 68, 71 and 73-75 meet the criteria set out in PCT Article 33(2)-(3).

The prior art of record does not teach or fairly suggest the expansion device and gripping device.

The prior art of record does not teach or fairly suggest the sealing device seals an annulus between the support device and the tubular member.

The prior art of record does not teach or fairly suggest an expansion device and a locking device to lock the tubular member relative to the support member.

The prior art of record does not teach or fairly suggest a packer assembly.

The prior art of record does not teach or fairly suggest an expansion device and actuator for displacing the expansion device relative to the support member.

The prior art of record does not teach or fairly suggest the cutting elements having a first and second position.

The prior art of record does not teach or fairly suggest a plurality of movable expansion elements coupled to the support member.

The prior art of record does not teach or fairly suggest an adjustable expansion device.

The prior art of record does not teach or fairly suggest an expansion device actuator and cutting device.

The prior art of record does not teach or fairly suggest the gripping members biased to remain in the first position.

International application No. PCT/US04/11973

_	Supplemental Box In case the space in any of the preceding boxes is not sufficient.		
	Claims 1-75 meet the criteria set out in PCT Article 33(4), and thus positive industrial applicability because the subject matter claimed can be made or used in industry.		

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged:
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims I to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]:
 "Claims 1-10 unchanged, claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17, new claims 20 and 21 added."

-Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the Language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim

Consequence if a demand for international preliminary examination has already been filed

....

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated elected Office, see the PCT Applicant's Guide, Volume II.

Land Start